

Methods and Systems for Print-Processor-Based Printer Status Detection and Print Task Distribution

Abstract of Disclosure

Embodiments of the present invention comprise methods and systems which enable a user to detect the status of printing devices without the use of additional hardware or application program modification for this purpose. These systems and methods are typically used in conjunction with a computer network comprising at least one computing device and a plurality of printing devices. When a print task is sent for printing it will activate a print processor for interpreting the print task. In addition to a print processor's interpretation function, the print processors of the present invention may detect the status of printing devices. Some embodiments may use this information to redirect or otherwise modify a print task for improved printing performance.

Figures

Figure 1: A schematic diagram illustrating the experimental setup for measuring the time delay of a signal. The diagram shows a signal source (S) connected to a delay line (DL) and a detector (D). The signal source is connected to the delay line, which is connected to the detector. The delay line is labeled with a time delay τ . The signal source is labeled with a frequency f . The detector is labeled with a time delay τ . The diagram shows the signal path from the source to the detector, with the delay line in between. The signal source is connected to the delay line, which is connected to the detector. The delay line is labeled with a time delay τ . The signal source is labeled with a frequency f . The detector is labeled with a time delay τ .